Applicant Initiated Interview Request Form

Application No.: 10/849571 First Named Applicant: Weidong Zhu
Examiner: Michael P. Nghiem Art Unit: 2863 Status of Application: Final

Tentative Participants:

(1) William Pegg (2) Weidong Zhu

(3) Michael P. Nghiem (4) _____

Proposed Date of Interview: 7/16/08 **Proposed Time:** 12:00 Noon PM

Type of Interview Requested:

(1) [ ] Telephonic (2) [X] Personal (3) [ ] Video Conference

Exhibit To Be Shown or Demonstrated: [ ] YES [X] NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) 35 U.S.C. § 102(e)	15, 47, 49, 60	Weiss et al. (US 2003/0013541)	[ ]	[ ]	[ ]

[ ] Continuation Sheet Attached

Brief Description of Arguments to be Presented:

Applicant respectfully traverses the 35 U.S.C. § 102 rejection over Weiss and applicant would like to discuss the disclosed and claimed invention with the Examiner. Applicant further desires to discuss the enclosed proposed amendments (attached) as possible expedients to prosecution.

An interview was conducted on the above-identified application on _____ .

NOTE:

This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP §713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

/William D. PEGG, Reg. #42,988/
Applicant/Applicant's Representative Signature

Examiner/SPE Signature

William Pegg
Typed/Printed Name of Applicant or Representative

42,988
Registration Number, if applicable

FOR DISCUSSION PURPOSES ONLY

Application No. 10/849571
Applicant: Weidong Zhu
Filed: May 20, 2004
Title: System and Method For Detecting Structural Damage

Art Unit: 2863
Examiner: Michael P. Nghiem
Docket No. 266923-000007USPT

Proposed Interview Time: July 16, 2008 12:00–1:00 PM EST

Draft of Proposed Amendments for Claims 15, 47, 49, and 60 (for Discussion Purposes Only)

15. (Currently Amended) A system for determining damage information of a structure, comprising:

a sensor arranged to measure vibrations of ~~said~~ a structure having a lengthwise dimension much greater in magnitude than cross-sectional dimensions thereof and to output vibration information;

a stiffness parameter unit for receiving said vibration information, determining natural frequency data of said structure, and determining the stiffness parameters of said structure using said natural frequency data; and

a damage information processor for receiving said stiffness parameters and outputting damage information comprising ~~at least~~ spatial damage information on said structure, said spatial damage information comprising a damage location along said lengthwise dimension of said structure.

47. (Currently Amended) A system for determining stiffness parameters of a structure, comprising:

a sensor arranged to measure vibrations of said structure and output vibration information;

a stiffness parameter unit for receiving said vibration information, determining natural frequency data of said structure, and determining the stiffness parameters of said structure using said natural frequency data; and

wherein said stiffness parameter unit comprises an iterative processing unit that determines said stiffness parameters using a first order ~~perturbation process~~ eigenvalue sensitivity analysis and one of the generalized inverse method, gradient method, or quasi-Newton method.

49. (Currently Amended) A system for determining stiffness parameters of a structure, comprising:

a sensor arranged to measure vibrations of said structure and output vibration information; and

a stiffness parameter unit for receiving said vibration information and determining said stiffness parameters with an iterative processing unit;

wherein said stiffness parameter unit comprises an iterative processing unit that determines said stiffness parameters using a first order ~~perturbation process~~ eigenvalue sensitivity analysis.

60. (Currently Amended) A system for determining stiffness parameters of a structure, comprising:

a sensor arranged to measure vibrations of said structure and output vibration information; and

a stiffness parameter unit for receiving said vibration information, determining mode shape information, and determining the stiffness parameters of said structure using said mode shape information;

wherein said stiffness parameter unit comprises an iterative processing unit that determines said stiffness parameters using a first order ~~perturbation process~~ eigenvector sensitivity analysis.